

Appl. No. 10/025,585

Attorney Docket No. 10541-595

I. Listing of Claims

Claims 1-17 (cancelled).

18. (Currently Amended): A vehicle adaptive [[The]] frontlighting system of Claim 17, for changing the direction of the light emitted by a headlight system in a vehicle, the frontlighting system comprising:

a movable headlight;

an electronic control unit located proximate to the movable headlight and connectable to the moveable headlight;

a housing having a metallic sphere, wherein the housing is mounted on the electronic control unit, wherein the metallic sphere within the housing, based on an acceleration by the vehicle; and

at least one sensor mounted to the housing and connectable to the electronic control unit, wherein the sensor measures the movement of the metallic sphere, thereby moving the movable headlight without an input measuring a steering wheel angle of the vehicle;

wherein the housing further comprises a viscous liquid surrounding the metallic sphere;

wherein the friction between the metallic sphere and the viscous liquid is low, such pressure exerted by the viscous fluid when the metallic sphere moves within the housing;

wherein the at least one sensor measures the pressure exerted by the viscous liquid.

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19. (Currently Amended): The frontlighting system of Claim [[15]] 18, wherein the vehicle acceleration moves the metallic sphere towards the rear of the housing.

20. (Currently Amended): The frontlighting system of Claim [[15]] 18, wherein the vehicle turning moves the metallic sphere towards a side of the housing.

21. (Currently Amended): The frontlighting system of Claim [[15]] 18, wherein the at least one sensor is located at the back of the housing to detect a longitudinal acceleration by the vehicle.

22. (Currently Amended): The frontlighting system of Claim [[15]] 18, further comprising a second sensor located on a side of the housing to detect a lateral acceleration by the vehicle.

23. (Cancelled)

24. (Currently Amended): The system of Claim [[23]] 28, wherein the first sensor is located on a side portion of the housing.

25. (Currently Amended): The system of Claim [[23]] 28, wherein the second sensor is located on a rear portion of the housing.

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Claims 26 and 27 (cancelled).

28. (Currently Amended): A vehicle adaptive frontlighting [[The]] system of Claim 27, for moving headlights of a vehicle depending on the vehicle acceleration, the system comprising:

an electronic control unit positioned proximate to the moving headlights and connectable to the moving headlights;

a housing mounted on the electronic control unit;

a metallic sphere disposed inside the housing, wherein the metallic sphere moves inside the housing, based on vehicle acceleration;

a first sensor connectable to the electronic control unit and located in the housing for detecting a lateral movement of the metallic sphere; and

a second sensor connectable to the electronic control unit and located in the housing for detecting the horizontal movement of the metallic sphere;

wherein the housing further comprises a viscous fluid surrounding the housing;

wherein the movement of the metallic sphere results in pressure being exerted by the viscous liquid; and

wherein the first and the second sensor measure the pressure exerted by the viscous fluid.

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